

NOTICE

All drawings located at the end of the document.



**Rocky Mountain
Remediation Services, L.L.C.**
... protecting the environment

Rocky Flats Environmental Technology Site
P.O. Box 464
Golden, Colorado 80402-0464
Phone: (303) 966-7000

January 28, 1999

CORRES. CONTROL

LTR. NO.

Originator Ltr
Log #

Robert Cathel, Program Manager
Environmental Systems and Stewardship
Kaiser-Hill Company, L.L.C.
Building T130C

DIST.	LTR	ENC
CARMEAN, C.H.		
CRAWFORD, A.C.		
DUNN, R. P.		
FINDLEY, M.E.		
FITZ, R.C.		
GUINN, L.A.		
HUGHES, F.P.		
LAW, J. E.		
MILLS, S.		
PATTERSON, J. W.		
SPROLES, W. R.		
SUTTON, S. R.		
TRICE, K.		
WHEELER, M.		
WOLF, K. Z.	X	
WOLF, C. H.	X	
HOPKINS, T.	X	X
BURKS, D.	X	X
LANE, L.	X	X
RMRS RECORDS	X	X
ADMIN RECORD	X	X
RF CORRES.		
CONTROL		
TRAFFIC		
PATS/T130G		

SUMMARY REPORT OF PHASE I RCRA CLOSURE ACTIVITIES FOR TANK AND ANCILLARY EQUIPMENT SYSTEM #7 IN BUILDING 771 - TAH-004-99

In accordance with the Closure Description Document for Tank and Ancillary Equipment System #7 in Building 771, Revision 1 (98-RF-04272), Rocky Mountain Remediation Services (RMRS) transmits the attached Summary Report of Phase I RCRA Closure Activities for System #7 for submittal to CDPHE. The summary report contains a description of major closure activities, one drawing modification, a summary of analytical results and a declaration that the tanks in this system have met the requirements for the "RCRA Stable" condition.

Phase I closure activities were conducted in accordance with the *RCRA Closure Plan for Interim Status Units* (July 1998) (Closure Plan) as well as with the Closure Description Document.

Please submit this Summary of Phase I RCRA Closure Activities on or before January 29, 1999. A draft letter to CDPHE is attached for your use.

If you have questions, please contact me at 303-966-7652 or Tom Baker at 303-966-4329.

CLASSIFICATION:

UCNI	X
UNCLASSIFIED	X
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER
SIGNATURE:

Ted A. Hopkins
Environmental Compliance Manager

Date:

TCB:dlu

IN REPLY TO RF CC NO.:
N/A

ACTION ITEM STATUS:
PARTIAL/OPEN
CLOSED

Attachments (2):
As Stated

LTR APPROVALS:

ORIG. & TYPIST INITIALS:

cc w/o attachments:
K. North



ADMIN RECORD 1/7

DRAFT

DRAFT

DRAFT

99-RF-XXXXX
DOE # xxxxx

Mr. Joe Scheiffelin, Unit Leader
Colorado Department of Public Health and the Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

Dear Mr. Scheiffelin:

KSAN-009-99

Pursuant to the *RCRA Closure Plan for Interim Status Units* (April, 1998) (Closure Plan) and the *Closure Description Document for Tank and Ancillary Equipment System #7 in Building 771, Revision 1* (98-RF-04272), Kaiser-Hill Company, L.L.C. is submitting the enclosed Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System #7 in Building 771.

The summary report contains a description of major closure activities, one drawing modification, a summary of analytical results and a declaration that the tanks in this system have met the requirements for the "RCRA Stable" condition.

If you have any questions, please contact Bob Cathel of Kaiser-Hill at 303-966-6880.

Karan S. North, Director
Environmental Systems & Stewardship
Kaiser-Hill Company, L.L.C.

cc:

C. Gilbreath	-	CDPHE
D. Grosek	-	DOE, RFFO
T.C. Baker	-	RMRS
T. A. Hopkins	-	RMRS
R.M. Leitner	-	Savant Enterprises
N. C.T. Van Tyne	-	ICF Kaiser

Phase I Summary Report of
RCRA Closure Activities for
Tank and Ancillary Equipment System #7
in Building 771

U.S. Department of Energy
Rocky Flats Environmental Technology Site
EPA ID No. CO7890010526

Confirmed and Approved by:

T.C. Baker
T.C. Baker, Environmental Compliance, RMRS

1-28-99
Date

Prepared by:

N.C.T. Van Tyne
N.C.T. Van Tyne, Project Manager II, ICF Kaiser

1/28/99
Date

REVIEWED FOR CLASSIFICATION/UCN
By T.C. Baker
Date 01-28-99 (U/NU)

1.0 PURPOSE

This Summary Report for Phase I activities in the RCRA closure of Tank and Ancillary Equipment System #7 is a requirement of Section 1.2 of the Closure Description Document (CDD) for this system (98-RF-04272, Rev. 1). The major features of this report include a declaration that the piping described in the document was removed as planned, a description of major closure activities and any deviations from those stated in the document, a copy of any newly-generated drawings and relevant analytical results, and a statement regarding whether the tanks included in this system have met the requirements of the "RCRA Stable" condition.

2.0 DESCRIPTION OF MAJOR CLOSURE ACTIVITIES

All sections of process piping for System #7 indicated in the CDD, Figures 2-4, were removed. This removal was confirmed through pre-job and post-job walkdowns of the system.

Piping removal was accomplished by using a 4-wheel cutter inside a sleeve or T-sleeve to cut the pipe wall until separation was almost achieved. The cutter was then removed, the sleeve was taped, the pipe was manually separated, and the sleeve was closed in a pigtail formation to secure all pipe ends. Short pipe stubs were left at Termination Points (TPs) instead of blind flanges. The containment method used for pipe stubs is illustrated in the modified Figure 6, which is attached.

The pipe sections were inspected visually by looking through them from one end while they were in the size reduction glovebox. No blockages were found in any sections and the pipe interiors appeared to be dry. The sections were characterized as non-hazardous waste and were placed into 55-gallon waste drums. Four drums were filled completely and one drum was filled partially. These drums have been labeled as TRU until drum counting has been completed.

During the tap and drain activity, a smaller volume of liquid (1.7 liters) was recovered than anticipated. The confirmatory sample exhibited a pH of less than 1 and plutonium content of 142 grams/liter. This liquid was not characterized further, but was staged for transfer into tank D-544, a temporary storage tank for acids. No additional liquid was recovered during piping removal activities.

3.0 TANK STATUS WITH RESPECT TO THE "RCRA STABLE" CONDITION

All three tanks (annular tanks D-548 (RCRA Unit 93.018), D-549 (Unit 93.019) and D-550 (Unit 93.020)) now satisfy the requirements for the "RCRA Stable" condition as follows:

1. Each tank is empty of liquids and mobile sludges in that no additional liquid could be extracted from the tap on the drain line at the bottom of the tank during a period of five minutes of continuous pumping. There was no indication of additional residual material inside the tank.
2. All process piping connected to the three tanks has been removed; only the vent line remains connected.
3. The TPs at the tanks have been sealed, so that no liquid can be re-introduced into the tanks.

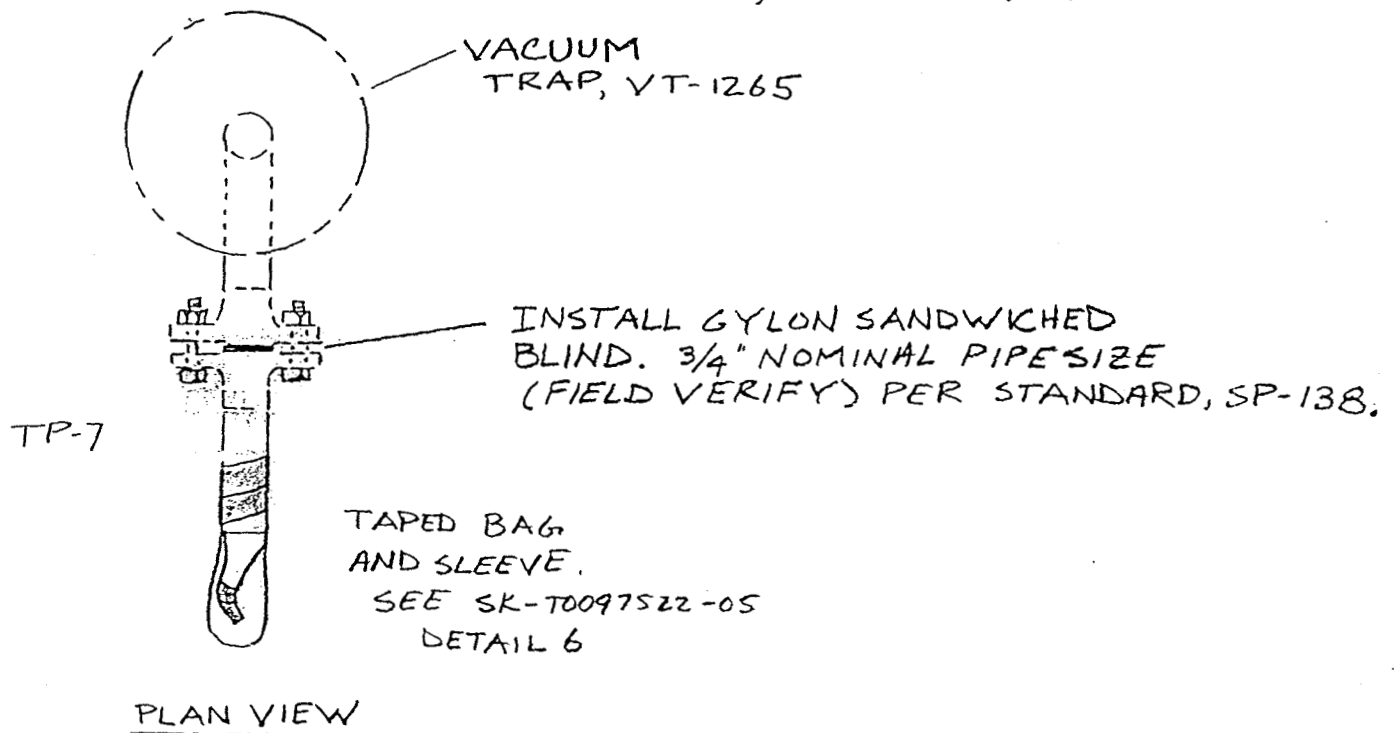
The "RCRA Stable" designation will be requested, along with a proposed inspection frequency, under separate cover. After the tanks have been approved as "RCRA Stable" by CDPHE, they will be labeled with their status and inspection frequency. In addition, the Master List of RCRA Hazardous Waste Units at Rocky Flats will be updated.

4.0 SUMMARY

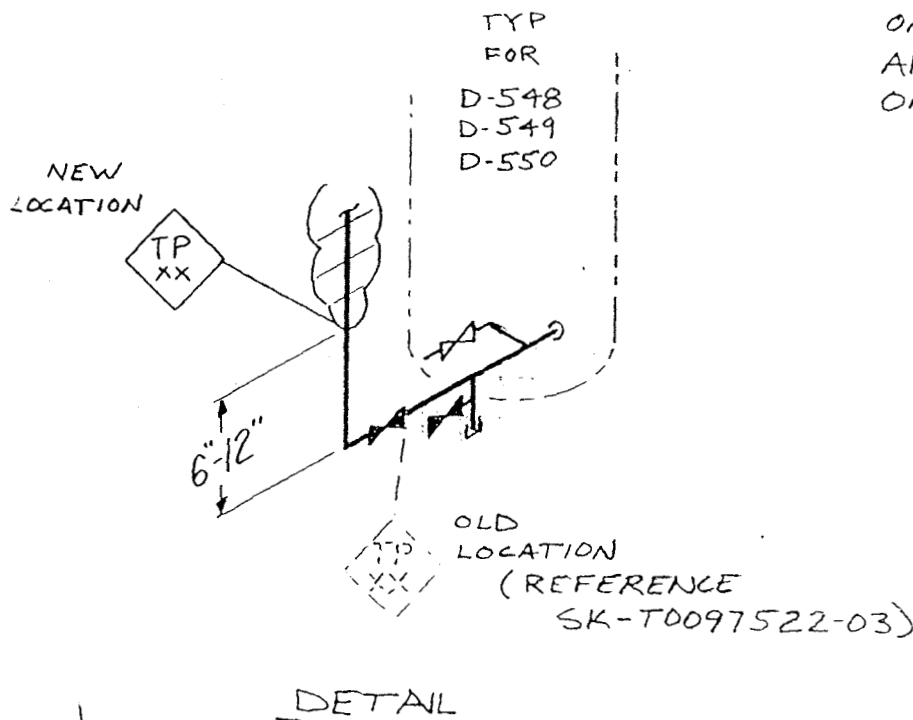
The requirements of the CDD for Phase I activities in the RCRA closure of System #7 in Building 771 have been fulfilled as stated in the document. In addition, all three tanks in this system meet the requirements for the "RCRA Stable" condition.

Figure 6: System #7 - Modified Drawing of Termination Details, continued

T0097522, ECR-002, PAGE 2 OF 2



CHANGE THE LOCATION OF TP-14, TP-15, AND TP-16 AS SHOWN ON THIS SHEET. SLEEVE, TAPE, AND BAG THE PIPE AS SHOWN ON SK-T0097522-05, DETAIL 6.

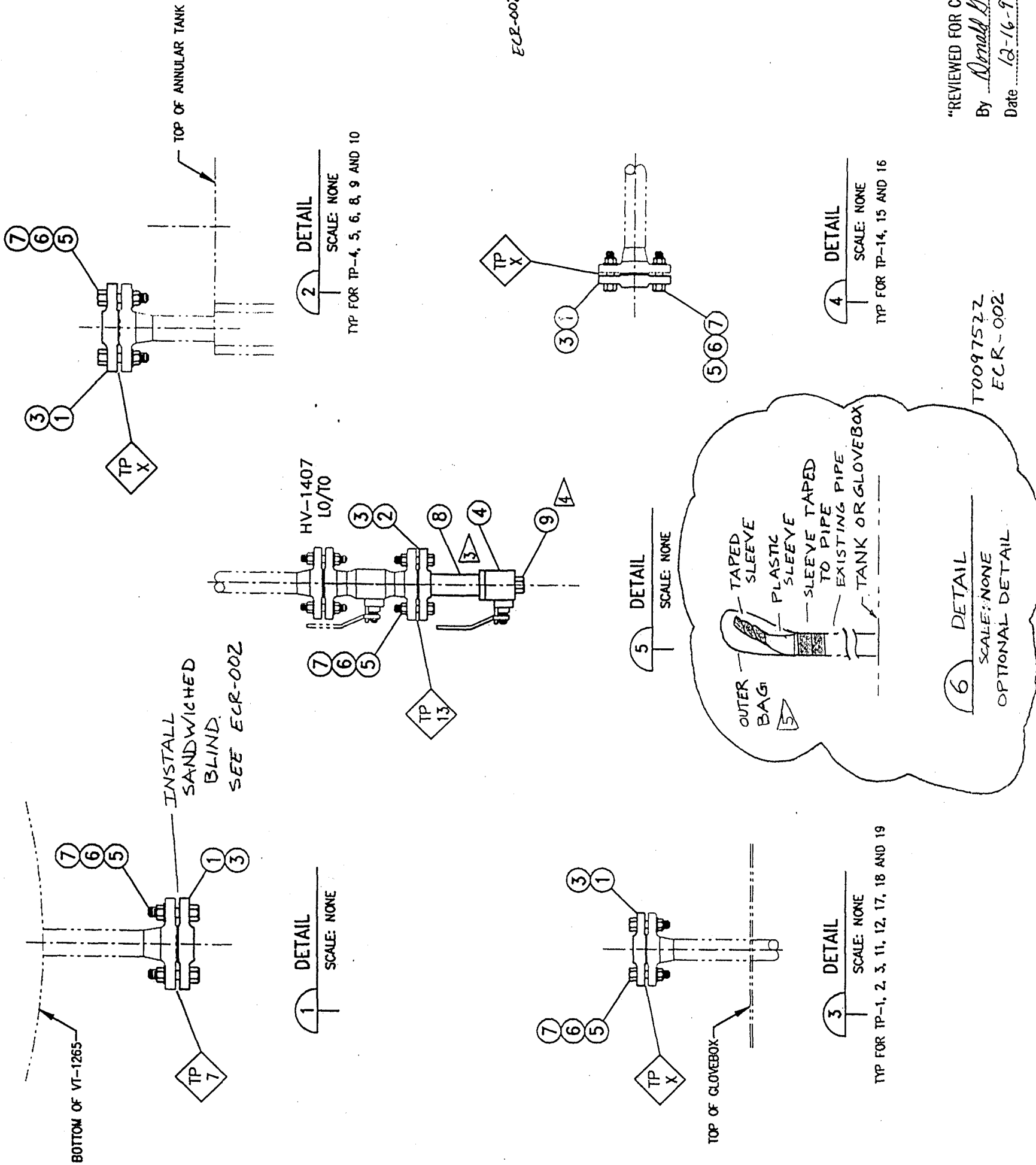


T0097522, ECR-002

DESIGNED: J. FAUBLE *J. Fauble*
 CHECKED: J. TRUSILLO *J. Trusillo*

7/1
 "REVIEWED FOR CLASSIFICATION U/NU
 By *Alfath*

Figure 6: System #7 - Modified Drawing of Termination Details



PART	QTY	DESCRIPTION	MATERIAL
1	18	FLANGE, 3/4" BLIND, RF, CLASS 150, ASTM A182 GR F 304L	304L SST
2	1	FLANGE, 3/4" X 1/2", REDUCING SW, RF, CLASS 150, ASTM A182, GR F 304 L	304L SST
3	19	GASKET, 3/4" PIPE DIA, 1/8" THK, STYLE 3510, 150# RING TYPE W/ TAB, GARLOCK INC	GARLOCK GYLON
4	1	VALVE, 1/2", SW X THD, SP-220, "V" SHEET #1023	316 SST
5	76	BOLT, 1/2"-13 UNC-2A X 2 3/4" LG, ASTM A193, GRADE B2, CLASS 2	SST
6	76	NUT, HEAVY HEX, 1/2"-13 UNC-2B, ASTM A194, GRADE 8	SST
7	76	WASHER, 1/2", TYPE B, NARROW SERIES, ANSI B 18.22.1	304 SST
8	1	PIPE, 1/2", SCH 40, 3' LG, ASTM A312	304L SST
9	1	PLUG, 1/2", MNPT, ASTM A182	304L SST

NOTES:

- SEE SK-T0097522-01, -02, & -03 FOR TERMINATION POINT LOCATIONS.
- TORQUE FLANGE BOLTS IN ACCORDANCE WITH PLANT GUIDANCE SK-162.

NOMINAL FLANGE SIZE	RECOMMENDED BOLT TORQUE (FT-LB)
1/2"	28 (±4)
3/4"	40 (±6)
1"	53 (±8)

WELD PER WPS T8/8.

TEFLON TAPE SHALL BE USED AT ALL THREADED PIPE CONNECTIONS.

OUTER BAG SHALL HAVE A VOLUME OF LESS THAN 4 LITERS.

APPROVED FOR USE
T0097251

J.A. FAUBLE 515622 ENGINEER
NAME TITLE
Signature DATE
10/22/98

DRAWN TRUJILLO	DATE 10/14/98	U.S. DEPARTMENT OF ENERGY
CHECKED J.R.V.	DATE 10/22/98	ROCKY FLATS AREA OFFICE
CLASSIFIED SECRET	BY J.R.V.	ROCKY FLATS PLANT
ROOM/AREA 149 & 114	GRID COORD./COL. NO.	GOLDEN, COLORADO
SCALE NONE	DRAWING NUMBER	PROCESS PIPING REMOVAL
CAD FILE HLS-05RS	SIZE B	HI LEVEL DISSOLUTION - DETAILS
		SK-T0097522-05

REVIEWED FOR CLASSIFICATION
By Donald D. Smith
Date 12-16-98

T0097522
E.C.R.-002

DETAIL
SCALE: NONE
OPTIONAL DETAIL

DETAIL

SCALE: NONE
TYP FOR TP-14, 15 AND 16

DETAIL

SCALE: NONE

DETAIL

SCALE: NONE
TYP FOR TP-1, 2, 3, 11, 12, 17, 18 AND 19

DETAIL

SCALE: NONE
TYP FOR TP-4, 5, 6, 8, 9 AND 10

DETAIL

SCALE: NONE